## CLAIMS

1. A microorganism belonging to the genus Rhodococcus and having the ability to degrade urethane bonds, or a mutant strain thereof.

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- 2. The microorganism according to claim 1, wherein the microorganism belonging to the genus Rhodococcus is Rhodococcus equi.
- 3. The microorganism according to claim 2, wherein the microorganism belonging to Rhodococcus equi is Rhodococcus equi strain TB-60.
  - 4. A method for degrading a urethane compound, which comprises the step of bringing the urethane compound into contact with the microorganism according to any one of claims 1 to 3.
  - 5. The method according to claim 4, wherein the urethane compound is a compound used as a source material for polyurethane production.
- 6. The method according to claim 4, wherein the urethane 20 compound is a polyurethane.
  - 7. A method for degrading a polyurethane, which comprises the steps of:

bringing the polyurethane into contact with the microorganism according to any one of claims 1 to 3; and

- bringing the polyurethane into contact with a microorganism having the ability to degrade ester bonds in the polyurethane.
  - 8. The method according to claim 7, wherein the

microorganism having the ability to degrade ester bonds in the polyurethane is *Paenibacillus amylolyticus* strain TB-13 or *Comamonas acidovorans* strain TB-35.